

Ay-ay, Andrei Gabriel M.

ME08\_2

```
root@0f6e444909b8: /  
Microsoft Windows [Version 10.0.19042.985]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\WINDOWS\system32>docker run -it ubuntu:16.04 /bin/bash  
root@0f6e444909b8:/# ping  
bash: ping: command not found  
root@0f6e444909b8:/# apt-get update  
Get:1 http://security.ubuntu.com/ubuntu xenial-security InRelease [109 kB]  
Get:2 http://archive.ubuntu.com/ubuntu xenial InRelease [247 kB]  
Get:3 http://security.ubuntu.com/ubuntu xenial-security/main amd64 Packages [2051 kB]  
Get:4 http://archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]  
Get:5 http://archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]  
Get:6 http://archive.ubuntu.com/ubuntu xenial/main amd64 Packages [1558 kB]  
Get:7 http://security.ubuntu.com/ubuntu xenial-security/restricted amd64 Packages [15.9 kB]  
Get:8 http://security.ubuntu.com/ubuntu xenial-security/universe amd64 Packages [984 kB]  
Get:9 http://archive.ubuntu.com/ubuntu xenial/restricted amd64 Packages [14.1 kB]  
Get:10 http://archive.ubuntu.com/ubuntu xenial/universe amd64 Packages [9827 kB]  
Get:11 http://security.ubuntu.com/ubuntu xenial-security/multiverse amd64 Packages [8820 B]  
Get:12 http://archive.ubuntu.com/ubuntu xenial/multiverse amd64 Packages [176 kB]  
Get:13 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 Packages [2559 kB]  
Get:14 http://archive.ubuntu.com/ubuntu xenial-updates/restricted amd64 Packages [16.4 kB]  
Get:15 http://archive.ubuntu.com/ubuntu xenial-updates/universe amd64 Packages [1544 kB]  
Get:16 http://archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 Packages [26.2 kB]  
Get:17 http://archive.ubuntu.com/ubuntu xenial-backports/main amd64 Packages [10.9 kB]  
Get:18 http://archive.ubuntu.com/ubuntu xenial-backports/universe amd64 Packages [12.7 kB]  
Fetched 19.4 MB in 1min 15s (258 kB/s)  
Reading package lists... Done  
root@0f6e444909b8:/#  
  
root@0f6e444909b8:/# apt-get install iputils-ping  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  libffi6 libgmp10 libgnutls-openssl127 libgnutls30 libhogweed4 libidn11 libnettle6 libp11-kit0 libtasn1-6  
Suggested packages:  
  gnutls-bin  
The following NEW packages will be installed:  
  iputils-ping libffi6 libgmp10 libgnutls-openssl127 libgnutls30 libhogweed4 libidn11 libnettle6 libp11-kit0 libtasn1-6  
0 upgraded, 10 newly installed, 0 to remove and 6 not upgraded.  
Need to get 1307 kB of archives.  
After this operation, 3781 kB of additional disk space will be used.  
Do you want to continue? [Y/n] Y  
Get:1 http://archive.ubuntu.com/ubuntu xenial/main amd64 libgmp10 amd64 2:6.1.0+dfsg-2 [240 kB]  
Get:2 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libnettle6 amd64 3.2-1ubuntu0.16.04.2 [93.7 kB]  
Get:3 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libhogweed4 amd64 3.2-1ubuntu0.16.04.2 [136 kB]  
Get:4 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libidn11 amd64 1.32-3ubuntu1.2 [46.5 kB]  
Get:5 http://archive.ubuntu.com/ubuntu xenial/main amd64 libffi6 amd64 3.2.1-4 [17.8 kB]  
Get:6 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libp11-kit0 amd64 0.23.2-5~ubuntu16.04.2 [107 kB]  
Get:7 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libtasn1-6 amd64 4.7-3ubuntu0.16.04.3 [43.5 kB]  
Get:8 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libgnutls30 amd64 3.4.10-4ubuntu1.8 [548 kB]  
83% [8 libgnutls30 441 kB/548 kB 81%]  
Get:18 http://archive.ubuntu.com/ubuntu xenial-updates/universe amd64 Packages [143 kB/s 1s]
```

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Setting up libffi6:amd64 (3.2.1-4) ...
Setting up libp11-kit0:amd64 (0.23.2-5~ubuntu16.04.2) ...
Setting up libtasn1-6:amd64 (4.7-3ubuntu0.16.04.3) ...
Setting up libgnutls30:amd64 (3.4.10-4ubuntu1.8) ...
Setting up libgnutls-openssl27:amd64 (3.4.10-4ubuntu1.8) ...
Setting up iputils-ping (3:20121221-5ubuntu2) ...
Setcap is not installed, falling back to setuid
Processing triggers for libc-bin (2.23-0ubuntu11.2) ...
root@0f6e444909b8:/# ping youtube.com
PING youtube.com (172.217.162.142) 56(84) bytes of data.
64 bytes from 172.217.162.142: icmp_seq=1 ttl=37 time=329 ms
64 bytes from 172.217.162.142: icmp_seq=2 ttl=37 time=317 ms
64 bytes from 172.217.162.142: icmp_seq=3 ttl=37 time=316 ms
64 bytes from 172.217.162.142: icmp_seq=4 ttl=37 time=315 ms
64 bytes from 172.217.162.142: icmp_seq=5 ttl=37 time=316 ms
64 bytes from 172.217.162.142: icmp_seq=6 ttl=37 time=316 ms
64 bytes from 172.217.162.142: icmp_seq=7 ttl=37 time=317 ms
64 bytes from 172.217.162.142: icmp_seq=8 ttl=37 time=316 ms
64 bytes from 172.217.162.142: icmp_seq=9 ttl=37 time=317 ms
64 bytes from 172.217.162.142: icmp_seq=10 ttl=37 time=314 ms
64 bytes from 172.217.162.142: icmp_seq=11 ttl=37 time=335 ms
64 bytes from 172.217.162.142: icmp_seq=12 ttl=37 time=317 ms
64 bytes from 172.217.162.142: icmp_seq=13 ttl=37 time=316 ms
^C
--- youtube.com ping statistics ---
13 packets transmitted, 13 received, 0% packet loss, time 12007ms
rtt min/avg/max/mdev = 314.856/319.115/335.281/5.833 ms
```

```
root@0f6e444909b8:/# ping duckduckgo.com
PING dUcKduCKGO.com (40.89.244.232) 56(84) bytes of data.
^C
--- dUcKduCKGO.com ping statistics ---
32 packets transmitted, 0 received, 100% packet loss, time 32264ms

root@0f6e444909b8:/# ping genshin.miyoho.com
PING genshin.miyoho.com (81.171.22.7) 56(84) bytes of data.
64 bytes from 81.171.22.7: icmp_seq=1 ttl=37 time=263 ms
64 bytes from 81.171.22.7: icmp_seq=2 ttl=37 time=268 ms
64 bytes from 81.171.22.7: icmp_seq=3 ttl=37 time=302 ms
64 bytes from 81.171.22.7: icmp_seq=4 ttl=37 time=280 ms
^C
--- genshin.miyoho.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 4254ms
rtt min/avg/max/mdev = 263.367/278.694/302.558/15.118 ms
root@0f6e444909b8:/# ping facebook.com
PING facebook.com (31.13.67.35) 56(84) bytes of data.
64 bytes from 31.13.67.35: icmp_seq=1 ttl=37 time=225 ms
64 bytes from 31.13.67.35: icmp_seq=2 ttl=37 time=223 ms
64 bytes from 31.13.67.35: icmp_seq=3 ttl=37 time=224 ms
64 bytes from 31.13.67.35: icmp_seq=4 ttl=37 time=225 ms
64 bytes from 31.13.67.35: icmp_seq=5 ttl=37 time=234 ms
^C
--- facebook.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 223.191/226.841/234.695/4.070 ms
root@0f6e444909b8:/# ping myanimelist.net
PING myanimelist.net (52.85.132.78) 56(84) bytes of data.
64 bytes from 52.85.132.78: icmp_seq=1 ttl=37 time=220 ms
64 bytes from 52.85.132.78: icmp_seq=2 ttl=37 time=218 ms
64 bytes from 52.85.132.78: icmp_seq=3 ttl=37 time=226 ms
64 bytes from 52.85.132.78: icmp_seq=4 ttl=37 time=221 ms
^C
--- myanimelist.net ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3003ms
rtt min/avg/max/mdev = 218.389/221.654/226.301/2.948 ms
root@0f6e444909b8:/#
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```
C:\WINDOWS\system32>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS   NAMES
0f6e444909b8   ubuntu:16.04   "/bin/bash"             26 minutes ago   Exited (0) 20 minutes ago           exciting_wing
```

```
C:\WINDOWS\system32>docker commit --help
```

```
Usage:  docker commit [OPTIONS] CONTAINER [REPOSITORY[:TAG]]
```

```
Create a new image from a container's changes
```

```
Options:
```

```
-a, --author string      Author (e.g., "John Hannibal Smith
                           <hannibal@a-team.com>")
-c, --change list        Apply Dockerfile instruction to the created image
-m, --message string     Commit message
-p, --pause              Pause container during commit (default true)
```

```
C:\WINDOWS\system32>docker commit -a "David Elner" -m "Added ping utility." 0f6e delner/ping
sha256:260fdd4beb0d2c614788eb97eebda2056fc536ac13524c902e58d45ab814fa8
```

```
C:\WINDOWS\system32>docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
delner/ping	latest	260fdd4beb0d	11 seconds ago	169MB
ubuntu	16.04	aefd7f02ae24	3 weeks ago	134MB

```
C:\WINDOWS\system32>
```

```
C:\WINDOWS\system32>docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
delner/ping	latest	260fdd4beb0d	11 seconds ago	169MB
ubuntu	16.04	aefd7f02ae24	3 weeks ago	134MB

```
C:\WINDOWS\system32>docker run -it --rm delner/ping /bin/bash
root@ffd0d0062a73:/# ping genshin.mihoyo.com
PING genshin.mihoyo.com.w.kunlunsl.com (8.48.85.227) 56(84) bytes of data.
64 bytes from 8.48.85.227: icmp_seq=1 ttl=37 time=176 ms
64 bytes from 8.48.85.227: icmp_seq=2 ttl=37 time=175 ms
64 bytes from 8.48.85.227: icmp_seq=3 ttl=37 time=191 ms
64 bytes from 8.48.85.227: icmp_seq=4 ttl=37 time=174 ms
64 bytes from 8.48.85.227: icmp_seq=5 ttl=37 time=177 ms
^C
--- genshin.mihoyo.com.w.kunlunsl.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4858ms
rtt min/avg/max/mdev = 174.288/179.036/191.401/6.284 ms
root@ffd0d0062a73:/#
```

docker commit initially didn't work, but I replaced ' with " and it worked just fine